

# Girls in STEAM 2022

## Activity Supply List

Thank you for registering for the Girls in STEAM 2022 Conference. We are very excited to be able to offer this program to you. Below is a supply list for each of the activities being offered.

### Engineering – Balloon Car Design Challenge

Recommended Classroom Materials:

- 1x Balloon Pump
- 2x Roll Masking Tape

Each Student bundle includes:

- 1x Large Balloon
- 1x Cut piece of cardboard (3"x7" or larger)
- 4x Foam Ball (You can substitute with bottle caps, or cardboard wheels)
- 4x Jumbo Straws (Large enough to fit skewer through, regular straws work as well)
- 6x Regular Straws
- 6x Skewers (Long enough to fit length of cardboard and straw)
- Bundle of Pipe cleaners

Additional supplies are not necessary, but it may encourage participants to try and think of other ways of building the balloon powered car. Keep in mind that the wheels and axels are crucial to have the vehicle travel well and far. If you received a kit from us, these numbers may be higher in case something breaks, or if the participants want to do a different design.

### Nature

Owl Pellet Dissection Kit

Each Student bundle includes:

- 1x Owl Pellet
- 1x Tweezer
- 1x Magnifying Glass
- 1x Reference Sheet

## Coding

1x Adafruit PyBadge LC Board  
1x USB Cable

**\*\*Note:** All of our code will be done in MakeCode. MakeCode has a virtual testing tool, so you can still code along even if you do not have an Adafruit PyBadge! Arcade MakeCode recommends the use of the Google Chrome web browser.

MakeCode Website: <https://arcade.makecode.com/>

## Art & Design

Cardstock Paper (Heavy paper)  
Pencils

